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PAE99-114TRDE  
Our File: P23504EP

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### Abstract

The present invention relates to a communication device (1) for transmitting and receiving data in a communication system and a corresponding communication method. In the communication system, which can be a wireless or a wired communication system, a random access channel is provided, which comprises a plurality of access resources. The access resources are divided in at least two access resource groups, each access resource group corresponding to a different access service class with a respective access probability. The communication device (1) according to the present invention, comprises selecting means (5) for randomly selecting an access resource from an access resource group corresponding to the current access service class of the communication device (1), transmitting means (3) for transmitting a random access burst in said selected access resource and detecting means (6) for detecting a specific event, whereby the current access service class of the communication device (1) is changed into another access service class when said specific event is detected by the detecting means (6).

The present invention proposes a simple and flexible scheme for the adaptation of the performance of a communication device (1) in the random access procedure in the case of certain events.

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(Fig. 1)